

Sampling will be done at the point of manufacture whenever the quantity shipped will warrant such procedure, and samples may also be taken at the point of destination. Bituminous materials shall not be used until conditionally approved at the source by the Materials Division.

SECTION 709

ELECTRICAL CONDUIT

Description. This Section covers the requirement of materials for electrical conduit of the size, type, and at the locations shown on the Plans or established by the Engineer in Section 802.

709.01. METALLIC CONDUITS.

- (a) **Rigid Steel.** Rigid galvanized steel conduit, intermediate metallic tubing, electrical metallic tubing and rigid aluminum conduit shall meet the requirements shown on the Plans.
- (b) **Flexible Steel.** Liquid-tight flexible steel conduit and fittings shall comply with the requirements of UL-360.

709.02. NON-METALLIC CONDUITS.

- (a) **Rigid Plastic.** Rigid plastic conduit shall meet the requirements shown on the Plans.
- (b) **Flexible Plastic.** Flexible plastic conduit shall comply with the requirements of NEMA TC7 and shall be smooth wall coilable duct of high density polyethylene (HDPE) meeting the requirements of ASTM D 1248, Type III Class C, Grade P33, Category 5, Schedule 40, unless otherwise specified in the Plans.
- (c) **Cable-in-Duct.** Cable-in-duct conduit shall be factory assembled. The duct shall be HDPE and comply with paragraph (b) above and be the size shown on the Plans. The conductors shall be of the type, size and number shown on the Plans. Identification of the conductor shall be accomplished by color coding the insulation by means of a continuous longitudinal colored stripe or various solid colors of continuous longitudinal colored stripe or various solid colors of insulation, in addition to the standard conductor markings.

709.03. OUTLET BOXES, FITTING AND ENTRANCE CAPS.

- (a) **General.** Outlet boxes, fittings, and entrance caps shall comply with current industry standards and be compatible with the conduit material used.
- (b) **Fittings.** Fittings and cement used with plastic conduit shall be compatible with conduit material.

709.04. TESTING.

Conduit may be accepted on the project without testing provided it is visually inspected and all pieces are clearly labeled with the UL label or a type D certification is furnished by the manufacturer. *In lieu of the above procedure, the following may be forwarded to the Materials Division for testing: a 2 foot (600 mm) length representing either each 1000 feet (300 m) or each 100 pieces of conduit, whichever is greater, of each size and type of conduit to be used.*